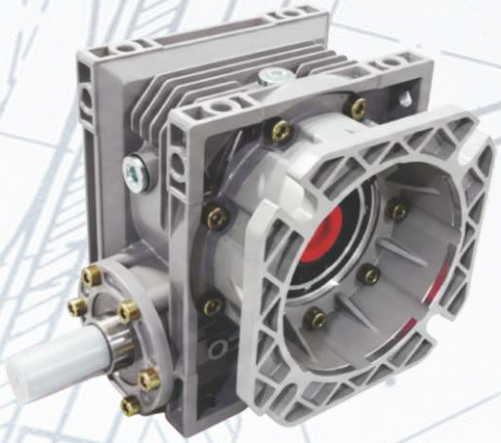
DISHA ROBOMATION

GT-W-XXX-XXX-FA



GT-W-XXX-XXX-FB

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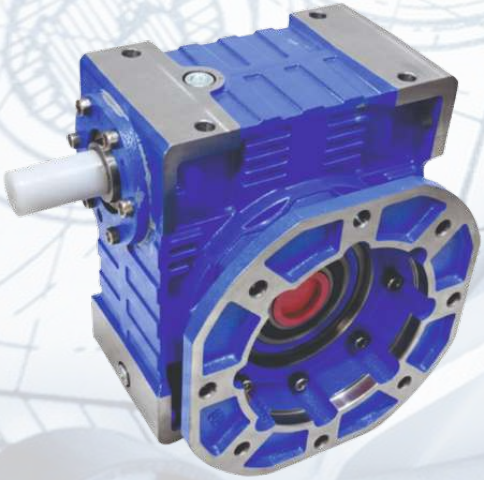

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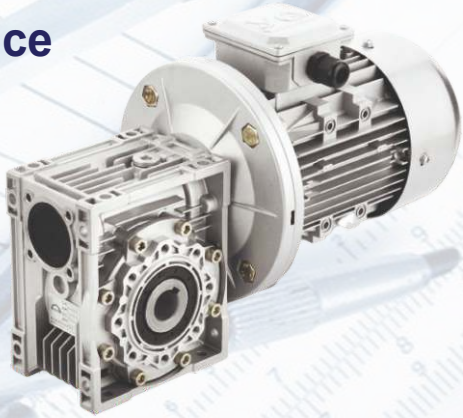

GT-W-XXX-XXX-FA
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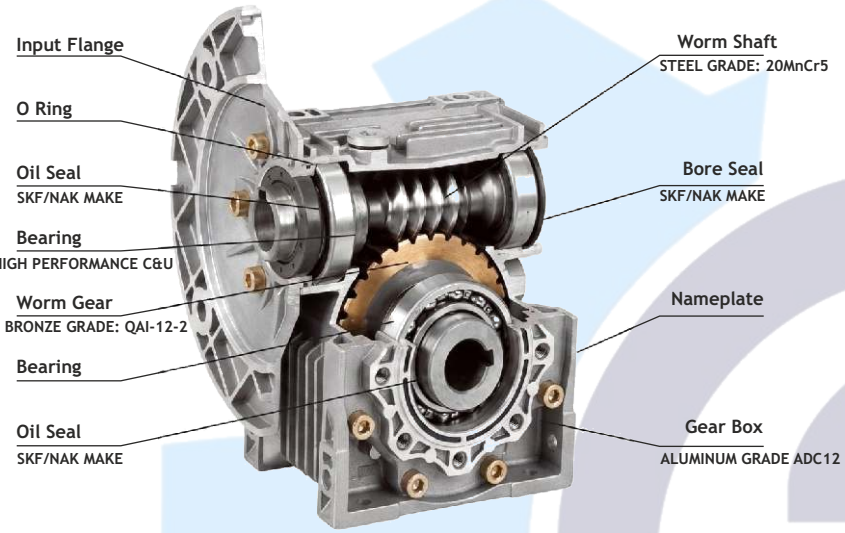
GT-W-XXX-XXX-FA

GT-W-XXX-XXX-FB

GT-W-XXX-XXX-FB-S

GT-W-XXX-XXX-FA-MOTOR



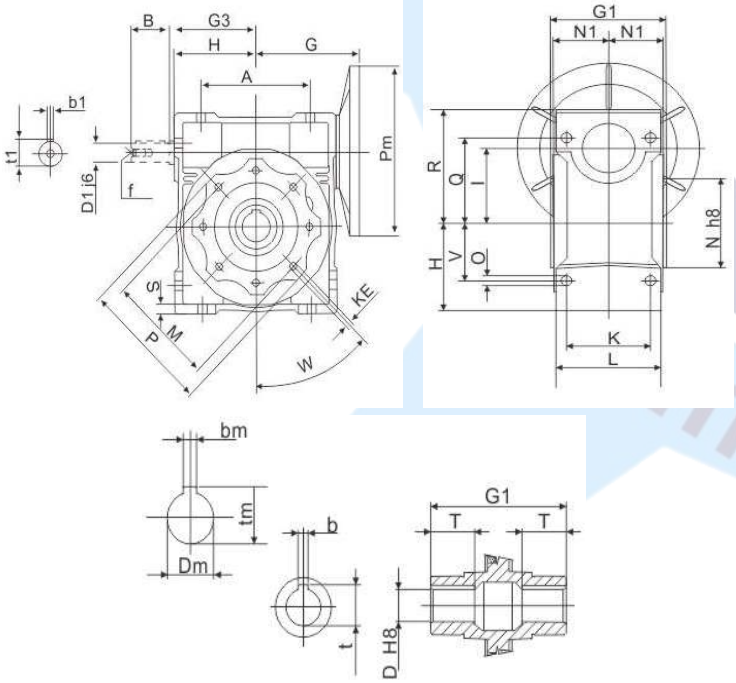
MODEL CODE DESCRIPTION:-

GT	-	BRAND CODE
W	-	WORM GEAR REDUCER
XXX	-	SIZE DESIGNATION
XXX	-	GEAR RATIO
FA	-	MOUNTING TYPE

SPECIAL FEATURES:-

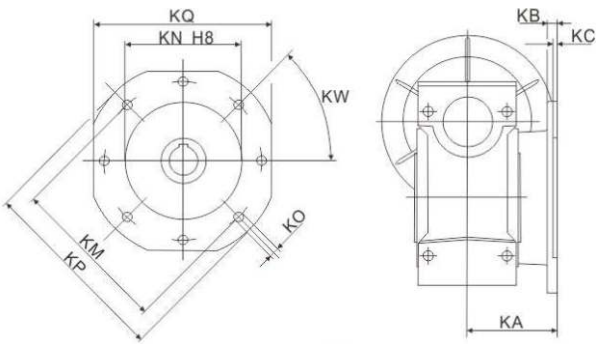
1. Rugged Design resulting in longer life.
2. Highly Precision Component ensuring consistent performance during life time.
3. Lubrication: Synthetic Oil ensuring long life

030-150 / Outline & Installation Sizes



	030	040	050	063	075	090	110	130	150
A	54	70	80	100	120	140	170	200	240
B	20	23	30	40	50	50	60	80	80
D	14	18(19)	25(24)	25(28)	28(35)	35(38)	42	45	50
D1	9	11	14	19	24	24	28	30	35
G	55	70	80	95	112.5	129.5	160	180	210
G1	63	78	92	112	120	140	155	170	200
G3	45	53	64	75	90	108	135	155	175
H	40	50	60	72	86	103	127.5	147.5	170
I	30	40	50	63	75	90	110	130	150
K	44	60	70	85	90	100	115	120	145
KE	M6*11(4)	M6*10(4)	M8*10(4)	M8*14(8)	M8*14(8)	M10*18(8)	M10*18(8)	M12*21(8)	M12*21(8)
L	56	71	85	103	112	130	144	155	185
M	64	75	85	95	115	130	165	215	215
N	55	60	70	80	95	110	130	180	180
N1	29	36.5	43.5	53	57	67	74	81	96
O	6.5	6.5	8.5	8.5	11.5	13	14	16	18
P	75	87	100	110	140	160	200	250	250
Q	44	55	64	80	93	102	125	140	180
R	57	71.5	84	102	119	135	167.5	187.5	230
S	5.5	6.5	7	8	10	11	14.5	15.5	18
T	21	26	30	36	40	45	50	60	72.5
V	27	35	40	50	60	70	85	100	120
W	0°	45°	45°	45°	45°	45°	45°	45°	45°
b	5	6	8	8	8(10)	10	12	14	14
t	16.3	20.8(21.8)	28.3(27.3)	28.3(31.3)	31.3(38.3)	38.3(41.3)	45.3	48.8	53.8
b1	3	4	5	6	8	8	8	8	10
t1	10.2	12.5	16	21.5	27	27	31	33	38
f	-	-	M6	M6	M8	M8	M10	M10	M12
*kg	1.2	2.3	3.5	6.2	9	13	35	48	84

030-150F / Output Flange Mounting



*Weight without motor

		030	040	050	063	075	090	110	130	150
FA	KA	54.5	67	90	82	111	111	131	140	155
	KB	6	7	9	10	13	13	15	15	15
	KB	4	4	5	6	6	6	6	6	6
	KN	50	60	70	115	130	152	170	180	180
	KM	68	75	85	150	165	175	230	255	255
	KO	6.5(n° 4)	9(n° 4)	11(n° 4)	11(n° 4)	14(n° 4)	14(n° 4)	14(n° 8)	16(n° 8)	16(n° 8)
	KP	80	110	125	180	200	210	280	320	320
	KQ	70	95	110	142	170	200	260	290	290
	KW	45°	45°	45°	45°	45°	45°	45°	22.5°	22.5°
FB	KA	-	97	120	112	90	122	180	-	-
	KB	-	7	9	10	13	18	15	-	-
	KB	-	4	5	6	6	6	6	-	-
	KN	-	60	70	115	110	180	170	-	-
	KM	-	75	85	150	130	215	230	-	-
	KO	-	9(n° 4)	11(n° 4)	11(n° 4)	14(n° 4)	14(n° 4)	14(n° 4)	-	-
	KP	-	110	120	180	160	250	280	-	-
	KQ	-	95	110	142	-	-	260	-	-
	KW	-	45°	45°	45°	45°	45°	45°	-	-

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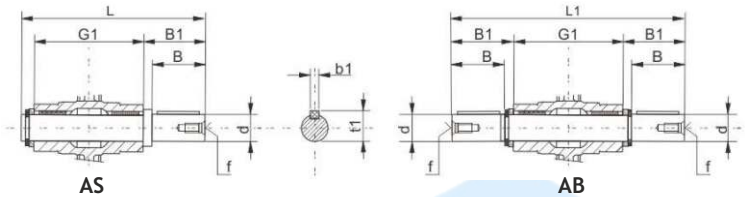
Low Speed Shafts

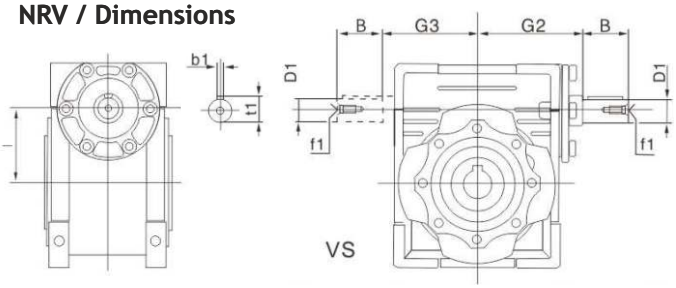


AS AB

	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25 (30)	050	81 (85.5)	101	-	4 (3)	12.5 (10.2)
030	14 h6	30	32.5	63	102	128	M6	5	16
040	18 h6	40	43	78	128	164	M6	6	20.5
050	25 h6	50	53.5	92	153	199	M10	8	28
063	25 h6	50	53.5	112	173	219	M10	8	28
075	28 h6	60	63.5	120	192	247	M10	8	31
090	35 h6	80	84.5	140	234	309	M12	10	38
110	42 h6	80	84.5	155	249	324	M16	12	45
130	45 h6	80	85	170	265	340	M16	14	48.5
150	50 h6	82	87	200	297	374	M16	14	53.5

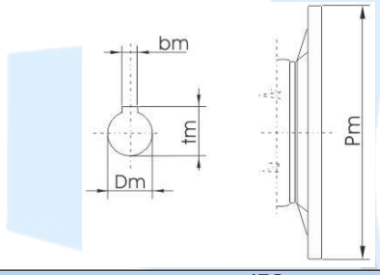
(..) Only on request

NRV / Dimensions



NRV	030	040	050	063	075	090	110	130	150
B	20	23	30	40	50	50	60	80	80
D1	9j6	11j6	14j6	19j6	24j6	24j6	28j6	30j6	35j6
G2	51	65	74	90	125	125	142	162	195
G3	45	53	64	75	90	108	135	155	175
l	30	40	50	63	75	90	110	130	150
b1	3	4	5	6	8	8	8	8	10
f1	-	-	M6	M6	M8	M8	M10	M10	M12
t1	10.2	12.5	16	21.5	27	27	31	33	38

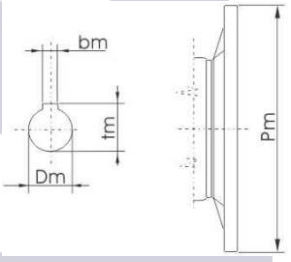
IEC B5 / PAM B5 - Dimensions



B5	IEC										
	056	063	071	080	090	100	112	132	160	180	200
Pm	120	140	160	200	200	250	250	300	350	350	400
Dm	9	11	14	19	24	28	28	38	42	48	55
bm	3	4	5	6	8	8	8	10	12	14	16
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3	45.3	51.3	59.3

NMRV(25~130) Tm=40.3(IEC 132)

IEC B14 / PAM B14 - Dimensions



B14	IEC							
	056	063	071	080	090	100	112	132
Pm	80	90	105	120	140	160	160	200
Dm	9	11	14	19	24	28	28	38
bm	3	4	5	6	8	8	8	10
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3

NMRV(25~130) Tm=40.3(IEC 132)

Model Selections & Demonstration

1 Please understand the following at first in order to select the model of RV Worm-gear speed reducer properly:

- Load condition.
- Speed or ratio in application.
- Working condition & environment.
- Installation space.

2 Based on working si condition check Coefficient K1 and revise Coefficient K2 from the chart.

- Ensure machinery load types A, B, C according to Table 1.
- Get the working condition coefficient K1 from diagram 1 according to turning time (Hour/day) and start frequency (times/hour)
- Inspect working condition and select coefficient K2 from Table 2.

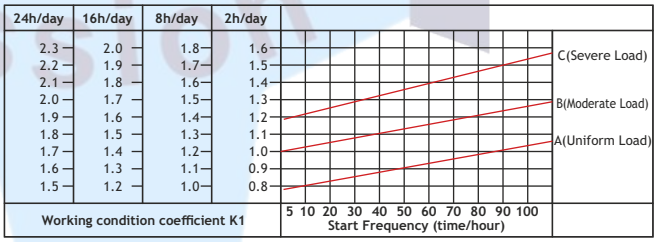
Table 1 Machinery Load Classification Selection

Using Situation	Example	Load Type
Uniform Load	Convey band (Uniform Conveying)	A(Unitorm Load)
Moderate Load	Speed Changed Conveying	B(Moderate Load)
Severe Load	Compressor, pulveriser, etc	C(Severe Load)

Table 2 Working condition coefficient K2

Ambient Temperature	Working condition coefficient K2
-10°C~30°C	1
30°C~40°C	1.1~1.2

Diagram 1 working Condition Coefficient K1



3 Reducer Selected

- Get the value of input machinery load T (Torque). The required model can be selected by the above and connecting ratio or output speed.
- Calculate output torque as below:-

Output Torque Required =
Input Machinery Torque x K1 x K2

Select the reducer in accordance with output torque & rotation speed from the chart.

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Operating Instructions

1 Single Step Worm Gear Reducer

1.1 The reducer which model is 25-90 made of Aluminium alloy die-casting box, good looking in appearance, compact in structure rust proofing on Surface and small volume to save mounting space.

1.2 The reducer model of 110 ~ 150 is made of cast iron which casted with Aluminium Mould. It's good looking and solid, and can be used through the setting of multi-azimuth.

1.3 Good radiating characteristics leads safe and reliability and high efficiency for using.

1.4 The strong capacity of loading ensure stable transmission, make less vibration and noise.

1.5 Varies of connecting structure for power input and torque output meet different requirements; the design of box outline and the set of foot hole with good versality is apt to many kinds of mounting.

2. Notes of Installation

3.1 The base-plate must be plane and stoutness, and the base-bolts must be screwed down and shockproof.

3.2 The connecting shafts of prime mover, reducer and operation device must be coaxial after installation.

3.3 The diameter tolerance zone of input and output shaft is j6 h6, the holes of fittings (such as couplings, belt-pulley, sprocket wheel & so on) must properly mate the shaft, which prevents bearing from breakage because of over-tight mate or avoid effecting normal power transmission because of over-loose mate.

3.4 Drives such as sprocket wheel and gear must be fitted close to bearing in order to reduce bending stress of hanging shaft.

3.5 While assembling motor to the reducer, it is necessary to add grease to the worm shaft input hole and keyway, so as to ease assembling and rusting when it is used for a long time.

3.6 Supporting bracket is required when motors whose weight is bigger than defined sizes.

4. Operating Notes

4.1 Before using, please check carefully whether the reducer type, centre distance size, ratio, input connecting method, output shaft structure , input and output shaft direction and revolving direction are right according to requirement. It is better for the input speed of worm shaft no more than 1500r/min.

4.2 The load should be added gradually when using the machine. Never run it with full load.

4.3 The reducer is equipped with a filling hole, a discharge hole and an oil mark. ISO Vg320 mineral oil has been added to the reducer. The user shall remove the rubber ring on the ventilator before use. After 800 hours after the injection of new oil, after every about 1500 hours oil change once.

4.4 The temp. of oil must remain within 15°C max from the Ambient temp. according to specified oil grade. The operation of the system must be stopped and checked.

4.5 We propose to change the oil seal when the reducer has been stored over four to six months and the oil seal hasn't been immersed in lubrication oil before using.

4.6 In case, ambient temperature is 5°C upper or lower than the normal level stated in the table, please contact with us for custom solutions.

Choice of Lubricant

Lubrication Oil Chosen Table

Reducer Size	25~90	110~130	
Type of Lubrication Oil	Synthetic Lubrication Oil	Mineral Lubrication Oil	
Ambient Temperature	-25~+50	-5~+40	-5~+25
ISO VG	ISO VG 320	ISO VG 460	ISO VG 220
AGIP	TELIUM VSF320	BLASIA 460	BLASIA 220
SHELL	TIVELA OIL SC320	OMALA OIL 460	OMALA OIL 220
ESSO	S220	SPARTAN EP460	SPARTAN EP220
MOBIL	GLYGOYLE30	MOBIL GEAR 634	MOBIL GEAR 630
CASTROL	ALPHASYNPG320	ALPHA MAX 460	ALPHA MAX 220
BP	ENERGOL SG-XP320	ENERGOL GR-XP460	ENERGOL GR-XP220

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